

Title (en)
COMBINATORIAL CHEMISTRIES FOR MATCHING MULTIPLE BATTERIES

Title (de)
KOMBINATORISCHE CHEMIKALIEN ZUR ANPASSUNG MEHRERER BATTERIEN

Title (fr)
COMPOSITIONS CHIMIQUES COMBINATOIRES POUR APPARIER DE MULTIPLES BATTERIES

Publication
EP 3090458 A1 20161109 (EN)

Application
EP 14825564 A 20141222

Priority
• US 201461923118 P 20140102
• US 201414578002 A 20141219
• US 2014071884 W 20141222

Abstract (en)
[origin: US2015188188A1] A micro-hybrid battery system includes a lithium ion battery module configured to be coupled to an electrical load. The lithium ion battery module includes a housing. The lithium ion battery module also includes a first lithium ion battery cell disposed in the housing and having a first active material chemistry including a first cathode active material and a first anode active material. The lithium ion battery module also includes a second lithium ion battery cell electrically connected to the first lithium ion battery cell and disposed in the housing. The second lithium ion battery cell has a second active material chemistry including a second cathode active material and a second anode active material. The first and second active material chemistries are different such that the first and second lithium ion battery cells have different open circuit voltages.

IPC 8 full level
H01M 4/485 (2010.01); **B60L 11/18** (2006.01); **H01M 4/525** (2010.01); **H01M 4/587** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/06** (2006.01); **H01M 16/00** (2006.01); **H01M 50/204** (2021.01)

CPC (source: EP US)
B60L 50/60 (2019.01 - EP US); **B60L 50/66** (2019.01 - EP US); **B60L 58/13** (2019.01 - EP US); **B60L 58/19** (2019.01 - EP US); **B60L 58/20** (2019.01 - EP US); **B60L 58/22** (2019.01 - EP US); **B60L 58/26** (2019.01 - EP US); **H01M 4/131** (2013.01 - US); **H01M 4/133** (2013.01 - US); **H01M 10/0525** (2013.01 - EP US); **H01M 10/058** (2013.01 - US); **H01M 10/06** (2013.01 - EP US); **H01M 10/4264** (2013.01 - US); **H01M 16/00** (2013.01 - EP US); **H01M 50/204** (2021.01 - EP US); **B60L 2240/545** (2013.01 - EP US); **B60L 2240/547** (2013.01 - EP US); **B60L 2240/549** (2013.01 - EP US); **H01M 4/485** (2013.01 - EP US); **H01M 4/525** (2013.01 - EP US); **H01M 4/587** (2013.01 - EP US); **H01M 2220/20** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US); **Y02T 10/70** (2013.01 - EP US); **Y10T 29/49108** (2015.01 - EP US)

Citation (search report)
See references of WO 2015102998A1

Cited by
WO2024055045A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 10128528 B2 20181113; **US 2015188188 A1 20150702**; CN 105612638 A 20160525; CN 105612638 B 20190402; EP 3090458 A1 20161109; EP 3090458 B1 20190227; WO 2015102998 A1 20150709

DOCDB simple family (application)
US 201414578002 A 20141219; CN 201480055787 A 20141222; EP 14825564 A 20141222; US 2014071884 W 20141222